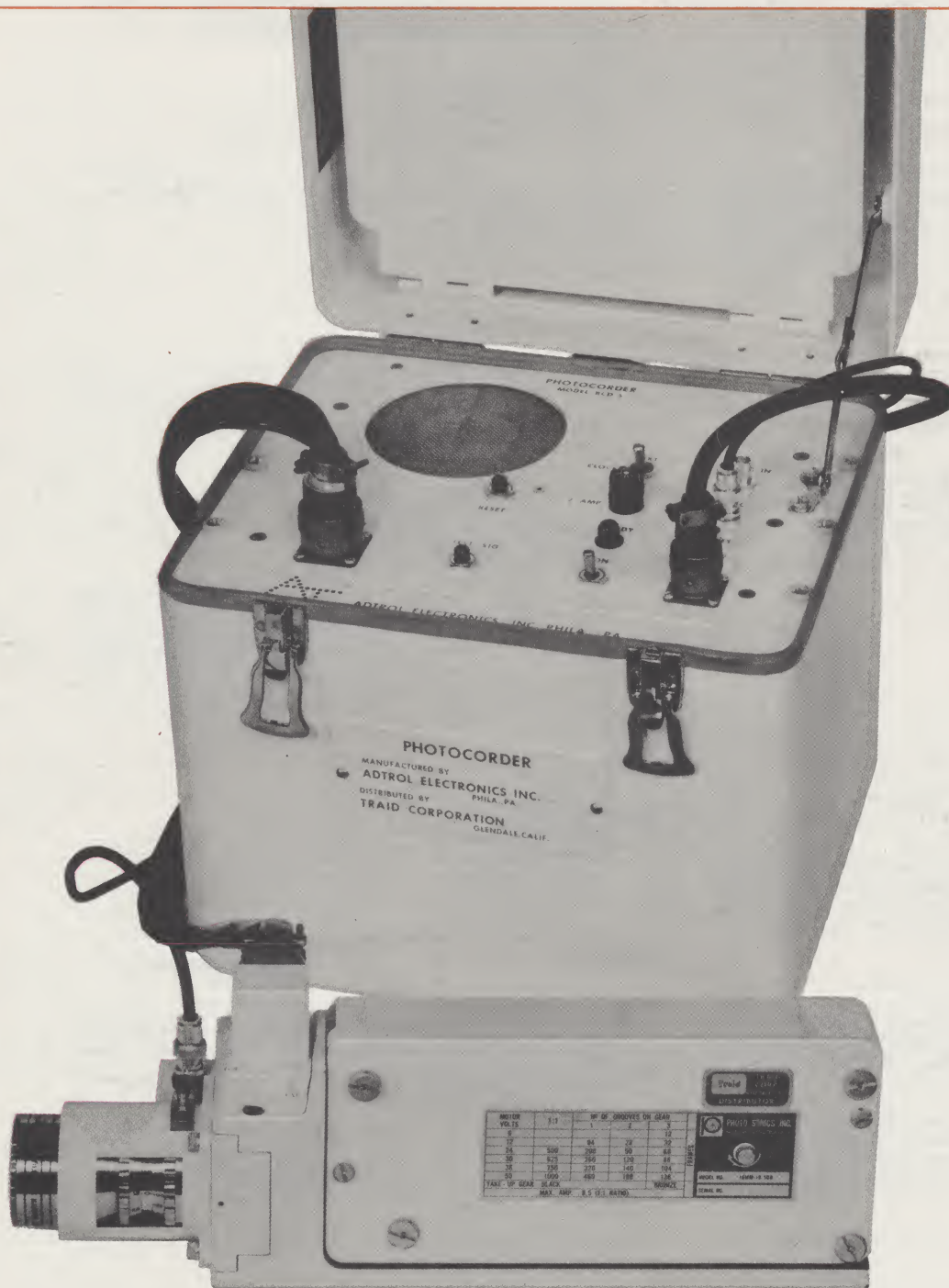


THE NEW ADTROL PHOTOCORDER® MODEL BCD-5

Inexpensive way to make your camera a data-recording system

□ Records five digits of elapsed time in binary-coded-decimal frame by frame. □ Operates at rates as high as 1500 frames per second.



Model BCD-5 shown with Photo-Sonics Model 16-1B

The Photocorder Model BCD-5 operates interchangeably with all of these cameras. Virtually any camera can be adapted. Let us show you how easily a Photocorder can meet *your* requirements!



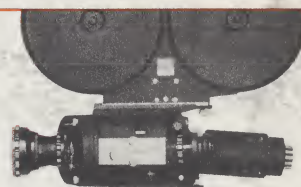
PHOTO-SONICS 16-1B



PHOTO-SONICS 35-4B



MITCHELL 16



MITCHELL 35



MITCHELL 16 MONITOR

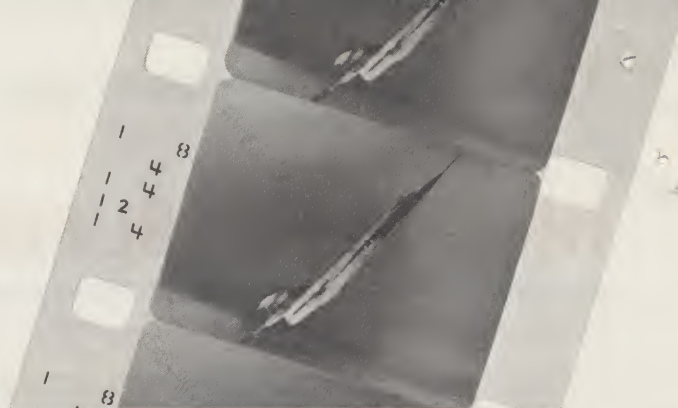


MILLIKEN DBM5

The Photocorder Model BCD-5 is manufactured by Adtrol Electronics, Inc., Philadelphia, Pa., and distributed exclusively by:

Exclusive Photocorder method presents data on each frame numerically

Timing information is presented on each frame —no need to count through several feet of timing marks.



Saves you data-reduction time Minimizes possibility of human error

The Photocorder brings new versatility, accuracy and simplicity to photo instrumentation. The Photocorder method of placing data on motion-picture film *with the filmed event* permits large savings in data-reduction time and makes possible a simpler system. With this unit, you can correlate data and events in any camera and at any speed.

Photocorder records elapsed time in the form of actual numerals in BCD (binary-coded decimal) format on each frame—at rates as high as 1500 frames per second. This method eliminates the need for tedious frame-by-frame counting of timing marks. It also eliminates the human error that can occur in such counting. Photocorder is the *only* system proven able to record on any light-sensitive film emulsion in any camera.

	2	4	8
	2	4	8
	2	4	8
	2	4	8
	2	4	8

This BCD matrix is the basis for recording time numerals on film frame.

		8
		4
		4
	2	
		4

Each film frame shows only the numerals that register the precise time of the filmed event.

		8	-----	9
		4	-----	4
		4	-----	5
	2		-----	3
		4	-----	5

Adding the columns horizontally gives you five digits of time data—up to 99.999 seconds and repeat.

(94.535 SEC.)

SPECIFICATIONS

INTERNAL CLOCK—A 1000 cps time base is provided internally for independent timing with a reset function included for zero reference starting. Five digits of time data are generated—99.999 seconds and repeat. Accuracy—.25%

EXTERNAL CLOCK—An input is available to accept an external time signal which is counted internally and presented as parallel BCD elapsed time. Clock frequencies up to 10,000 cps may be utilized. The clock signal must be more negative than 5V with a return to 0V \pm 1V.

RESET—Controls are provided for automatic resetting and synchronizing of internal counter in single or multiple unit operation. The remote reset function is available through a connector. The reset is accomplished by grounding this line.

TEST—A test feature is available on the recorder to assure data presentation.

CONTROLS—

- Power Switch
- Power Indicator
- Ready Indicator
- Internal-External Clock Switch
- Test Switch, Pushbutton
- Reset Switch, Pushbutton
- External Clock Input (BNC)
- Remote Reset Input (BNC)
- Data Output
- Frame Sync Input (BNC)

CABLES—

- Data Output—8 feet maximum
- Camera Frame Sync—8 feet
- Power Input—10 feet

DATA OUTPUT—Five digits BCD (8-4-2-1 code modified 1010 = 0) of elapsed time 99.999 seconds and repeat.

FORMAT SIZE—20 bits max. on .025" centers nominally (.075" x .100" approx.)

RECORDING RATE—up to 1500 frames per second.

RECORDING HEAD—mounted integral within camera.

POWER—115 VAC \pm 10 V, 50/60 cps, 120 watts

WEIGHT—25 pounds

SIZE—10"W x 12"L x 12"H, portable splash proof case with cable stowage in cover.



For additional information or demonstration, call the below listed offices or just return the enclosed reply card.

TRAID CORPORATION

777 Flower Street
Glendale, California 91209
AC 213-245-9393

1608 Forest Glen Road
Silver Spring, Maryland
AC 301-587-3003

1207 Banana River Drive
Indian Harbour Beach, Florida 32937
AC 305-773-2955

NEWS



FROM

TRAID CORPORATION



NEW ADTROL PHOTOCORDER® MODEL BCD-6/2E adds additional versatility!

**NOW! RECORD TWO DIGITS OF
EVENT DATA PLUS FOUR DIGITS
OF ELAPSED TIME IN BINARY-CODED-
DECIMAL FRAME BY FRAME!**

SPECIFICATIONS

INTERNAL CLOCK

A 1000 cps time base is provided internally for independent timing with a reset function included for zero reference starting. Four digits of time data are generated — 9.999 seconds and repeat. Accuracy — .01%.

EXTERNAL CLOCK

An input is available to accept an external time signal which is counted internally and presented as parallel BCD elapsed time. Clock frequencies up to 10,000 cps may be utilized. The clock signal must be more negative than 5V with a return to 0V \pm 1V.

EVENT

Two manual switches are provided to select two digits of event data.

RESET

Controls are provided for automatic-resetting and synchronizing of internal counter in single or multiple unit operation. The remote reset function is available through a connector. The reset is accomplished by grounding this line.

TEST

A test feature is available on the recorder to assure data presentation.

CONTROLS

- Power Switch
- Reset Switch, Pushbutton
- Power Indicator
- External Clock Input (BNC)

- Ready Indicator
- Internal-External Clock Switch
- Remote Reset Input (BNC)
- Data Output
- Frame Sync Input (BNC)
- Test Switch, Pushbutton

CABLES

- Data Output — 8 feet maximum
- Camera Frame Sync — 8 feet
- Power Input — 10 feet

DATA OUTPUT

Four digits BCD (8-4-2-1 code modified 1010 = 0) of elapsed time 9.999 seconds and repeat. Two digits of event data 0-9 in BCD code.

FORMAT SIZE

20 bits max. on .025" centers nominally (.075" x .125 approx.)

RECORDING RATE

Up to 1500 frames per second.

RECORDING HEAD

Mounted integral within camera.

POWER — 115 VAC

\pm V, 50/60 cps, 120 watts

WEIGHT

25 pounds

SIZE

10"W x 12"L x 12"H, portable splash proof case with cable stowage in cover.

EXCLUSIVE PHOTOCORDER® METHOD PRESENTS DATA ON EACH FRAME NUMERICALLY!

NEW

1	2	4	£
1	2	4	£
1	2	4	£
1	2	4	£
1	2	4	£
1	2	4	£

This BCD matrix is the basis for recording time and event numerals on each frame.

2	4
1	£
	4
1	4
1	2
	4

Each film frame shows only the numerals that register the film event and elapsed time.

2	4
1	£
	4
1	4
1	2
	4

Adding the two top columns horizontally gives you the event. Adding the remaining four columns horizontally gives you the time data — up to 9.999 seconds and repeat.

**EVENT - 69
TIME - 4.535 seconds**

**THE MODEL BCD-6/2E PHOTOCORDER® IS
COMPATIBLE WITH ANY MODEL BCD-5 RECORDING
HEAD CAMERA INSTALLATION.**

FOR COMPLETE INFORMATION OR DEMONSTRATION, WRITE:



TRAID CORPORATION

777 Flower St., Glendale, Calif. • Ph. 213/245-9393

News

FROM



TRAID CORPORATION

HOME OFFICE

777 Flower Street
Glendale, California 91209
AC 213-245-9393

NORTHEASTERN OFFICE

1608 Forest Glen Road
Silver Spring, Maryland
AC 301-587-3003

SOUTHEASTERN OFFICE

1207 Banana River Drive
Indian Harbour Beach, Florida 32937
AC 305-262-2944

pronounced "Trade"

Traid Corporation was recently designated as the exclusive distributor of the Adtrol Electronics Model BCD-5 Photocorder System. With the new BCD-5 Photocorder, you can correlate time data and events on motion picture film in any camera, and at any speed.

Photocorder records elapsed time or other data such as azimuth, elevation, etc., in the form of actual numerals in BCD (binary coded decimal) format on each frame - at frame rates as high as 1500 frames per second. A 1000 CPS time base is provided internally for independent timing, and an input is available for an external time signal at clock frequencies up to 10,000 CPS. The Adtrol Photocorder is the only system proven able to record on any light-sensitive film emulsion in any camera.

A partial listing of Photocorder customers is as follows:

1. NASA, Goddard Space Flight Center, Maryland
2. NAEC, Philadelphia, Pennsylvania
3. NATC, Patuxent River, Maryland
4. Pratt and Whitney, Florida
5. NASA, Wallops Island, Virginia
6. NATF, Lakehurst, New Jersey
7. NOTS, China Lake, California
8. NASA, Huntsville, Alabama
9. Avco-Everett, Massachusetts
10. Aerospace Corporation, Los Angeles, California

Please call one of our offices today for more information or a demonstration.

our equipment demonstration van



TRAID CORPORATION, GLENDALE, CALIFORNIA

ADTROL PHOTOCORDERS

<u>PART OR MODEL NO.</u>	<u>PRODUCT & SPECIFICATIONS</u>	<u>PRICE</u>
BCD-5	Adtrol Photocorder, 5 digit BCD (8-4-2-1 code modified 1010=0) of elapsed time to 99.999 seconds and repeat.	\$ 2,300.00
BCD-6	Adtrol Photocorder, 6 digit BCD (8-4-2-1 code modified 1010=0) of elapsed time to 9 minutes 59.999 seconds and repeat.	2,600.00
BCD-6/2	Adtrol Photocorder, 4 digit BCD (8-4-2-1 code modified 1010=0) of elapsed time to 9.999 seconds and repeat. 2 digits of event data 00-99 in BCD code.	2,500.00
2BCD-6	Adtrol Photocorder, Dual Unit, 6 digits BCD (8-4-2-1 code modified 1010=0) of elapsed time to 9 minutes, 59.999 seconds and repeat in each of two cameras.	4,400.00
2BCD-6/2	Adtrol Photocorder, Dual Unit, 4 digit BCD (8-4-2-1 code modified 1010=0) of elapsed time to 9.999 seconds and repeat. 2 digits of event data, 00-99 in BCD Code, in each of two cameras.	4,400.00
BCD-6/1A	Adtrol Photocorder, 5 digits BCD (8-4-2-1 code modified 1010=0) of elapsed time to 59.999 seconds with IRIG correlation plus 1 digit manual event selection 0-9.	3,500.00
2BCD-6/1A	Adtrol Photocorder, Dual Unit, 5 Digits, BCD (8-4-2-1 code modified 1010=0) of elapsed time to 59.999 seconds with IRIG correlation plus 1 digit of manual event selection 0-9 in each of two cameras.	5,600.00
BCD-6A	Adtrol Photocorder, 6 digits BCD (8-4-2-1 code modified 1010=0) of elapsed time to 9 minutes, 59.999 seconds or 59 minutes, 59.99 seconds with IRIG correlation.	4,400.00
	Recording Heads - BCD-6 Series	500.00

Revised
3/23/67

ADTROL PHOTOCORDERS (continued)

<u>PART OR MODEL NO.</u>	<u>PRODUCT & SPECIFICATIONS</u>	<u>PRICE</u>
	Carrying Case For Photocorder	\$ 80.00
	Ruggedized Case	1,000.00
	<u>Retrofit & Installation of Recording Head in the following Cameras:</u>	
	Photo-Sonics 16mm-1B	300.00
	Milliken 16mm-DBM-4	
	16mm-DBM-5	
	Mitchell 16mm HS 35mm HS	
	Mitchell 16mm Monitor 600	600.00
	Flight Research 35mm 705	1,000.00
	35mm 207	1,000.00
2426	Retrofit Kit for CZR 5" Mitchell (Includes 6 Digit Head.)	1,100.00
	Price for Retrofit Installation by Factory available on request.	
	Instructions and drawings supplied for customer installation.	
ND-24	24 Light Test Display	175.00

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

F.O.B. GLENDALE, CALIFORNIA

Revised
4/12/67